

Lösung für Aufgabe 2.6

Using rdfsax, all the axiomatic triples listed for the RDF and RDFS semantics are derivable. We can now use the deduction rules for RDFS entailment to obtain further triples.

From `rdfs:domain rdfs:range rdfs:Class .`
and `rdf:type rdfs:domain rdfs:Resource .`
we can deduce using rdfs3 that
`rdfs:Resource rdf:type rdfs:Class .`

From `rdfs:range rdfs:range rdfs:Class .`
and `rdfs:range rdfs:range rdfs:Class .`
we can deduce using rdfs3 that
`rdfs:Class rdf:type rdfs:Class .`

From `rdfs:range rdfs:range rdfs:Class .`
and `rdfs:comment rdfs:range rdfs:Literal .`
we can deduce using rdfs3 that
`rdfs:Literal rdf:type rdfs:Class .`

From `rdfs:subClassOf rdfs:domain rdfs:Class .`
and `rdf:XMLLiteral rdfs:subClassOf rdfs:Literal .`
we can deduce using rdfs2 that
`rdfs:XMLLiteral rdf:type rdfs:Class .`

From `rdf:type rdfs:range rdfs:Class .`
and `rdf:XMLLiteral rdf:type rdfs:Datatype .`
we can deduce using rdfs3 that
`rdfs:Datatype rdf:type rdfs:Class .`

From `rdfs:subClassOf rdfs:domain rdfs:Class .`
and `rdf:Seq rdfs:subClassOf rdfs:Container .`
we can deduce using rdfs2 that
`rdfs:Seq rdf:type rdfs:Class .`

From `rdfs:subClassOf rdfs:domain rdfs:Class .`
and `rdf:Bag rdfs:subClassOf rdfs:Container .`
we can deduce using rdfs2 that
`rdfs:Seq rdf:type rdfs:Class .`

From `rdfs:subClassOf rdfs:domain rdfs:Class .`
and `rdf:Alt rdfs:subClassOf rdfs:Container .`
we can deduce using rdfs2 that
`rdfs:Seq rdf:type rdfs:Class .`

From `rdfs:subClassOf rdfs:range rdfs:Class .`
 and `rdf:Alt rdfs:subClassOf rdfs:Container .`
 we can deduce using `rdfs3` that
 `rdfs:Container rdf:type rdfs:Class .`

From `rdfs:domain rdfs:range rdfs:Class .`
 and `rdf:first rdfs:domain rdfs:List .`
 we can deduce using `rdfs3` that
 `rdfs:List rdf:type rdfs:Class .`

From `rdfs:subClassOf rdfs:domain rdfs:Class .`
 and `rdf:ContainerMembershipProperty`
 `rdfs:subClassOf rdfs:Property .`
 we can deduce using `rdfs2` that
 `rdf:ContainerMembershipProperty rdf:type rdfs:Class .`

From `rdfs:range rdfs:range rdfs:Class .`
 and `rdfs:subPropertyOf rdfs:range rdf:Property .`
 we can deduce using `rdfs3` that
 `rdf:Property rdf:type rdfs:Class .`

From `rdfs:domain rdfs:range rdfs:Class .`
 and `rdf:subject rdfs:domain rdf:Statement .`
 we can deduce using `rdfs3` that
 `rdf:Statement rdf:type rdfs:Class .`

From `rdfs:range rdfs:domain rdf:Property .`
 we can deduce using `rdf1` that
 `rdfs:domain rdf:type rdf:Property .`

From `rdfs:subPropertyOf rdfs:range rdf:Property .`
 we can deduce using `rdf1` that
 `rdfs:range rdf:type rdf:Property .`

From `rdfs:isDefinedBy rdfs:subPropertyOf rdfs:seeAlso .`
 we can deduce using `rdf1` that
 `rdfs:subPropertyOf rdf:type rdf:Property .`

From `rdf:Alt rdfs:subClassOf rdfs:Container .`
 we can deduce using `rdf1` that
 `rdfs:subClassOf rdf:type rdf:Property .`

From `rdf:Alt rdfs:subClassOf rdfs:Container .`
 we can deduce using `rdf1` that
 `rdfs:subClassOf rdf:type rdf:Property .`

From `rdfs:range rdfs:domain rdf:Property .`
 and `rdfs:member rdfs:range rdfs:Resource .`
 we can deduce using `rdfs2` that
 `rdfs:member rdf:type rdfs:Property .`

From `rdfs:range rdfs:domain rdf:Property .`
and `rdfs:seeAlso rdfs:range rdfs:Resource .`
we can deduce using `rdfs2` that
`rdfs:seeAlso rdf:type rdfs:Property .`

From `rdfs:range rdfs:domain rdf:Property .`
and `rdfs:isDefinedBy rdfs:range rdfs:Resource .`
we can deduce using `rdfs2` that
`rdfs:isDefinedBy rdf:type rdfs:Property .`

From `rdfs:range rdfs:domain rdf:Property .`
and `rdfs:comment rdfs:range rdfs:Literal .`
we can deduce using `rdfs2` that
`rdfs:comment rdf:type rdfs:Property .`

From `rdfs:range rdfs:domain rdf:Property .`
and `rdfs:label rdfs:range rdfs:Literal .`
we can deduce using `rdfs2` that
`rdfs:label rdf:type rdfs:Property .`